

P.O. Box 616, Ansonia Station, N.Y., N.Y. 10023

INSTALLATION AND OPERATING INSTRUCTIONS FOR OWL 1

Thank you for buying OWL 1.

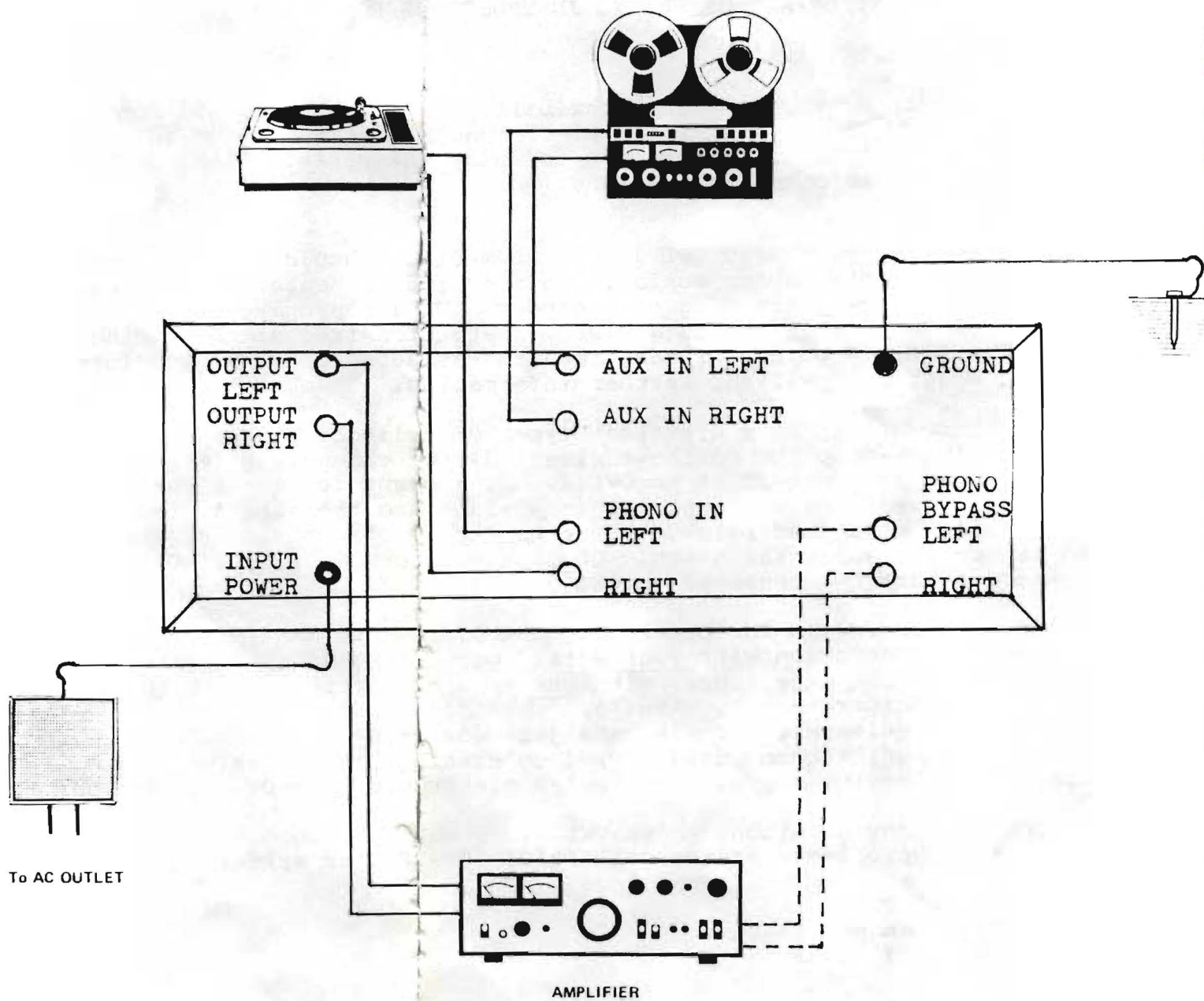
OWL 1 is designed to provide maximum flexibility in playback of all monaural sound sources, from cylinders to hi-fi mono LPs. The set-up and use instructions that follow will enable you to enjoy the capabilities of OWL 1 fully. Here are some other suggestions:

- 1) Those who have purchased OWL 1 for 78RPM discs should use a variable speed turntable for musical accuracy and truncated, elliptical styli for the best tracking of grooves. OWL 1 can only provide excellent sound when it has a clean, distortion-free signal coming from the 78RPM grooves. Please read the attached CONDUCTART information sheet on styli for further information.
- 2) Since there are so many different types of cylinder playback systems (home-made and custom-engineered), we can only give general suggestions for connection to OWL 1. If a magnetic stereo cartridge is used, the connection instructions are the same as for turntables, described below. For other types of cartridges, write to us for further information. Obviously, acoustic playback systems cannot be connected to OWL 1.
- 3) Whatever your reason for purchasing OWL 1, remember that it must be used in connection with your ears. Our "RECOMMENDED SETTINGS" are based on our experience, with our ears and principally with classical music material. (We have obtained similar and often identical results with popular and jazz source material.) You should not hesitate to adjust OWL 1 to obtain the results which you find most pleasing on your particular electronic set-up.
- 4) If you have any questions about OWL 1, or any hook-up or operational problems, please call (212) 580-2881 or write:

CONDUCTART/OWL
POB 616, Ansonia Station
New York, NY 10023

GOOD LISTENING!

CONNECTION DIAGRAM



OPERATING INSTRUCTIONS

1. Flip the POWER switch ON and the red light will glow. If it does not, make sure the power-pack is securely plugged into the wall and that the power-pack cord is firmly plugged into the INPUT POWER terminal on the back of OWL 1.
2. Set the INPUT selector to the proper position: PHONO for turntables, AUX for tape, or BYPASS to allow the stereo signal from turntables to pass through OWL 1 unaffected. Set the PHONO LEVEL switch on the back of OWL 1 to "-20" for most LPs and 78RPM discs; the "0" position is used for cylinders and low-level LPs.
3. Set the MODE selector to MONO for most disc or tape input; VERTICAL is used for cylinders and vertical (hill-and-dale) 78RPM discs.
4. Consult the chart on the facing page and set the TURNOVER and ROLLOFF selectors to the settings recommended.

NOTE: 78RPM discs must be played with the ROLLOFF set at FLAT. The only exceptions are some late 1940's RCA Victors.

5. Set the RUMBLE FILTER slightly lower than the recommended setting.
6. Set the H. F. FILTER slightly higher than the recommended setting.
7. Be sure the FILTER BYPASS switch is IN.
8. Start the record or tape. Listen to the low frequency response. Adjust the RUMBLE FILTER to the lowest setting which removes rumble without sacrificing low frequency response. Flipping the FILTER BYPASS switch from IN to BYPASS will let you hear what you are eliminating. If the overall sound is very bass-heavy, select a lower TURNOVER setting; if the sound is thin, move the TURNOVER to a higher position.
9. Listen to the high-frequency response. Adjust the H. F. FILTER so that the least amount of hiss or scratch is audible. Again flip the FILTER BYPASS switch from IN to BYPASS to hear what the filter is cutting out. This special notch filter allows you to remove that part of the noise which you find most offensive. Generally speaking, the earlier the material, the lower the setting. Remember that the noise content of 78RPM discs is related to factors such as surface material, playing speed, stylus size, etc. Let your ears tell you where to set the notch filter.
10. It may be helpful on lateral 78RPM discs to check the separate groove-walls for wear. Flip the MODE selector from "MONO" to "L" and then to "R" to hear the difference. Occasionally a disc has one groove-wall less worn than the other and will give better reproduction with the MODE set at "L" or "R".

CONNECTION INSTRUCTIONS

1. Select a location for your OWL 1 between your turntable and amplifier, and near a wall outlet if possible. You may set OWL 1 on the top of any amplifier which does not generate significant heat.
2. A power-pack is supplied with OWL 1 (similar to the kind used with electric razors). Connect the power-pack directly to a wall outlet for trouble-free service and no hum or gain problems. The power-pack can also be connected to any good heavy-duty extension, but we do NOT recommend plugging the power-pack directly into any outlets on the power amplifier itself. Be sure the cord from the power-pack can reach OWL 1 with a bit of slack. Do not connect the power cord to OWL 1 just yet.
3. If you use a SEPARATE TURNTABLE FOR 78RPM DISCS simply connect the left and right leads from the turntable to the PHONO INPUT LEFT and PHONO INPUT RIGHT terminals on OWL 1.

NOTE: If your turntable has only one lead, or if there are two leads connected to a monaural cartridge, OWL 1 CANNOT FUNCTION PROPERLY. A monaural cartridge does not provide the input needed for the playback of cylinders or vertically-cut discs. OWL 1 requires input from a stereo cartridge for the "L", "R", and "VERTICAL" positions of the MODE selector to function. Write CONDUCTART for further information.

4. Using the short set of connectors supplied with OWL 1, connect the OUTPUT RIGHT and OUTPUT LEFT of OWL 1 to the right and left terminals of the AUX (or SPECIAL or EXTRA) inputs of your amplifier.
5. If you use the SAME TURNTABLE FOR BOTH 78RPM AND LP DISCS, then you must purchase another set of connectors like the one supplied with OWL 1. This set should be used to connect the BYPASS LEFT and BYPASS RIGHT of OWL 1 to phono left and phono right inputs of your amplifier.
6. If there is any detectable hum when you put OWL 1 into use, run a wire from the OWL 1 ground lug to the ground lug on your amplifier. Or, connect the ground wire from your turntable to OWL 1 and then to the amplifier. In extreme cases, ground the OWL 1 to your amp and then ground the amp to some convenient metal grounding, such as a radiator or plumbing. If there is no hum, do not connect a ground.
7. For TAPE RECORDER CONNECTIONS, simply plug the connectors from the output of the tape player into the AUX LEFT and AUX RIGHT inputs of OWL 1. Remember, OWL 1 is a monaural device and if you play stereo tapes you must reconnect the output leads from the tape recorder to your regular tape input.
8. Plug the pin-jack at the end of the power-pack wire into the INPUT POWER hole on the back of OWL 1. Flip the POWER switch ON, the red light will glow, and you are ready to use OWL 1 in your system.

RECOMMENDED SETTINGS

<u>SOURCE</u>	<u>INPUT</u>			<u>EQUALIZATION</u>		<u>FILTER</u>	
	<u>INPUT</u>	<u>LEVEL</u>	<u>MODE</u>	<u>TURNOVER</u>	<u>ROLLOFF</u>	<u>RUMBLE</u>	<u>NOTCH</u>
Cylinders	PHONO	0	VERTICAL	FLAT	FLAT	110Hz	6kHz
Acoustic Lateral 78	PHONO	-20	MONO	FLAT	FLAT	100Hz	10kHz
Acoustic Vertical 78	PHONO	-20	VERTICAL	FLAT	FLAT	110Hz	8kHz
*Electric Lateral 78	PHONO	-20	MONO	SEE NOTE	FLAT	60Hz	10kHz
*Electric Vertical 78	PHONO	-20	VERTICAL	SEE NOTE	FLAT	60Hz	10kHz
Late RCA 78	PHONO	-20	MONO	500	-5dB	60Hz	12kHz
Early LPs	PHONO	0/-20	MONO	SEE LP CHART		Up to 60Hz	12kHz
Tape	AUX	N/A	MONO	FLAT	FLAT	Variable	10kHz
Late mono LP	PHONO	-20	MONO	RIAA	RIAA	40Hz	20kHz
	OR BYPASS		(OWL 1 CONTROLS HAVE NO EFFECT IN "BYPASS")				
Stereo LP	BYPASS		(OWL 1 CONTROLS HAVE NO EFFECT IN "BYPASS")				

REMINDER: To play stereo LPs through OWL 1, you must move the INPUT selector to BYPASS and have connectors routed from the PHONO BYPASS terminals on the back of OWL 1 to the phono inputs of your amplifier.

*ELECTRICAL 78s vary widely from company to company, disc to disc, even those made during one recording session:

TURNOVER MUST BE ADJUSTED BY EAR.

Some suggested rules are: Early discs (1925-1930, 375Hz-500Hz; Later discs (1930-1945), 500Hz; Very late (1945-1950), 500Hz-750Hz; some early Odeons, 1kHz.

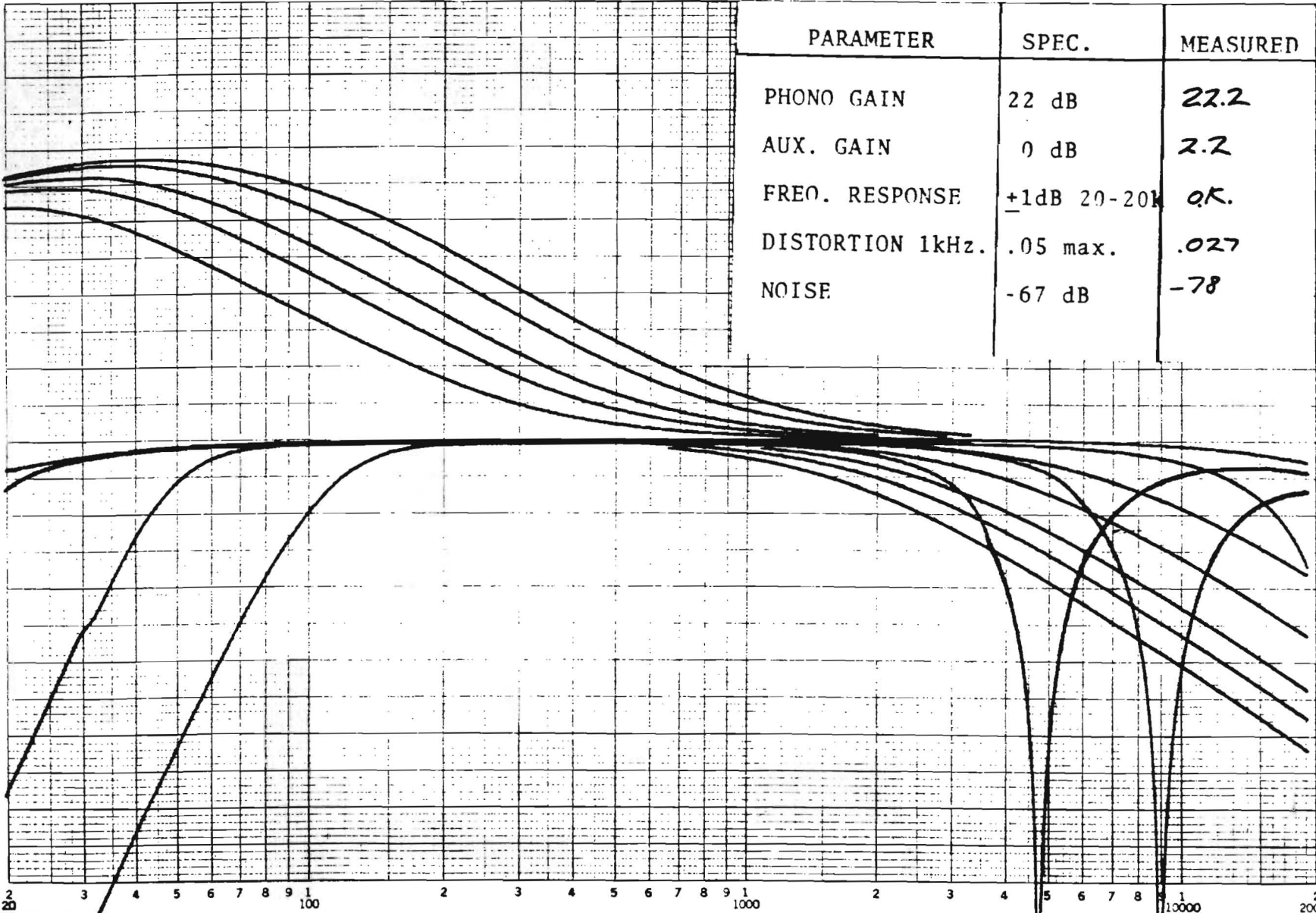
ROLLOFF MUST ALWAYS BE SET FLAT.

The only exceptions are some very late RCA Victors.

EQUALIZATION CHART FOR EARLY MONO LP DISCS

<u>LABEL</u>	<u>TURNOVER</u>	<u>ROLLOFF</u>
ALLIED		
BOSTON		
CETRA-SORIA		
CORAL		
HAYDN SOCIETY		
HMV		
KENDALL	500Hz	-16dB
LYRICHORD		
OCEANIC		
OXFORD		
POLYMUSIC		
REMINCTON		
TEMPO		
ALL OTHER MONO LP DISCS PRESSED BEFORE 1955	500Hz	-14dB
<u>THESE EXCEPTIONS ARE TO BE NOTED:</u>		
BACH GUILD 501-529	500Hz	-16dB
BARTOK 301-304, 309 and 906-920	750Hz	-16dB
CAEDMON 1001-1022	750Hz	-16dB
CAPITOL before 1955	375Hz	-14dB
CETRA-SORIA before 1955	375Hz	-14dB
COLUMBIA BLUE LABEL	500Hz	-16dB
DECCA before 1956	500Hz	-16dB
FOLKWAYS before 1955	500Hz	-16dB
KAPP 100-103, 1000-1	750Hz	-16dB
LONDON up to LL846 (Cold lettering on label)	500Hz	-8.5dB
LONDON INTERNATIONAL	500Hz	-8.5dB
MERCURY before 1955 (Small, thin lettering; all black labels)	375Hz	-12dB
L'OISEAU-LYRE before 1954	500Hz	-8.5dB
RCA before 1953	500Hz <u>OR</u> 800Hz	-12dB
RIVERSIDE before 1955	375Hz	-12dB
VANGUARD 411-422, 6000-6018, 7001-7011 8000-8004	500Hz	-16dB
WESTMINSTER before 1956	500Hz	-16dB
WESTMINSTER if jacket states AES	375Hz	-12dB
MONO LP DISCS PRESSED AFTER 1955	RIAA (960Hz)	RIAA (-13.7dB)

OWL - 1 - #155



PARAMETER	SPEC.	MEASURED
PHONO GAIN	22 dB	22.2
AUX. GAIN	0 dB	2.2
FREQ. RESPONSE	+1dB 20-20k	O.K.
DISTORTION 1kHz.	.05 max.	.027
NOISE	-67 dB	-78